

**ATTACHMENT B**  
**LABORATORY ANALYTICAL REPORTS**

**FORMER RAINIER BREWERY PROPERTY**  
3100 Airport Way South  
Seattle, Washington  
Farallon PN: 338-001



**OnSite  
Environmental Inc.**

14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

May 14, 2003

Tim Brown  
Farallon Consulting, LLC  
320 3<sup>rd</sup> Avenue NE, Suite 200  
Issaquah, WA 98027

Re: Analytical Data for Project 833-002  
Laboratory Reference No. 0305-081

Dear Tim:

Enclosed are the analytical results and associated quality control data for samples submitted on May 9, 2003.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister  
Project Manager

Enclosures

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OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody,  
and is intended only for the use of the individual or company to whom it is addressed.

**RCLLC 0004269**

Date of Report: May 14, 2003  
Samples Submitted: May 9, 2003  
Lab Reference: 05-081  
Project: 833-002

### Case Narrative

Samples were collected on May 8, 2003. Samples were maintained at the laboratory at 4°C and followed SW846 analysis and extraction methods.

#### NWTPH Gx/BTEX Analysis

Any QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

#### NWTPH Dx Analysis

Any QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

#### Volatiles EPA 8260B Analysis

Any QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

#### Dissolved Metals by EPA 200.8/7470A Analysis

Any QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: May 14, 2003  
Samples Submitted: May 9, 2003  
Lab Reference: 05-081  
Project: 833-002

**NWTPH-Gx/BTEX**

Date Extracted: 5-9&12-03  
Date Analyzed: 5-9&12-03

Matrix: Water  
Units: ug/L (ppb)

Client ID: B2-RGW  
Lab ID: 05-081-01

B3-RGW  
05-081-02

	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		1.0	ND		1.0
Toluene	ND		1.0	ND		1.0
Ethyl Benzene	ND		1.0	ND		1.0
m,p-Xylene	ND		1.0	ND		1.0
o-Xylene	ND		1.0	ND		1.0
TPH-Gas	ND		100	ND		100
Surrogate Recovery: Fluorobenzene	108%			103%		

Date of Report: May 14, 2003  
Samples Submitted: May 9, 2003  
Lab Reference: 05-081  
Project: 833-002

**NWTPH-Gx/BTEX**

Date Extracted: 5-9&12-03  
Date Analyzed: 5-9&12-03

Matrix: Water  
Units: ug/L (ppb)

Client ID:	<b>B6-RGW</b>	<b>B10-RGW</b>
Lab ID:	05-081-03	05-081-04

	<b>Result</b>	<b>Flags</b>	<b>PQL</b>	<b>Result</b>	<b>Flags</b>	<b>PQL</b>
Benzene	<b>ND</b>		1.0	<b>ND</b>		1.0
Toluene	<b>ND</b>		1.0	<b>ND</b>		1.0
Ethyl Benzene	<b>ND</b>		1.0	<b>ND</b>		1.0
m,p-Xylene	<b>ND</b>		1.0	<b>ND</b>		1.0
o-Xylene	<b>ND</b>		1.0	<b>ND</b>		1.0
TPH-Gas	<b>ND</b>		100	<b>ND</b>		100
Surrogate Recovery: Fluorobenzene	100%			107%		

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**RCLLC 0004272**

Date of Report: May 14, 2003  
Samples Submitted: May 9, 2003  
Lab Reference: 05-081  
Project: 833-002

**NWTPH-Gx/BTEX  
METHOD BLANK QUALITY CONTROL**

Date Extracted: 5-9-03  
Date Analyzed: 5-9-03

Matrix: Water  
Units: ug/L (ppb)

Lab ID: MB0509W1

	Result	Flags	PQL
Benzene	ND		1.0
Toluene	ND		1.0
Ethyl Benzene	ND		1.0
m,p-Xylene	ND		1.0
o-Xylene	ND		1.0
TPH-Gas	ND		100

Surrogate Recovery:  
Fluorobenzene 104%

Date of Report: May 14, 2003  
Samples Submitted: May 9, 2003  
Lab Reference: 05-081  
Project: 833-002

**NWTPH-Gx/BTEX  
METHOD BLANK QUALITY CONTROL**

Date Extracted: 5-12-03  
Date Analyzed: 5-12-03

Matrix: Water  
Units: ug/L (ppb)

Lab ID: MB0512W1

	Result	Flags	PQL
Benzene	ND		1.0
Toluene	ND		1.0
Ethyl Benzene	ND		1.0
m,p-Xylene	ND		1.0
o-Xylene	ND		1.0
TPH-Gas	ND		100
Surrogate Recovery: Fluorobenzene	107%		

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**RCLLC 0004274**

Date of Report: May 14, 2003  
Samples Submitted: May 9, 2003  
Lab Reference: 05-081  
Project: 833-002

**NWTPH-Gx/BTEX  
DUPLICATE QUALITY CONTROL**

Date Extracted: 5-9-03  
Date Analyzed: 5-9-03

Matrix: Water  
Units: ug/L (ppb)

Lab ID:	05-081-03 Original	05-081-03 Duplicate	RPD	Flags
Benzene	ND	ND	NA	
Toluene	ND	ND	NA	
Ethyl Benzene	ND	ND	NA	
m,p-Xylene	ND	ND	NA	
o-Xylene	ND	ND	NA	
TPH-Gas	ND	ND	NA	
Surrogate Recovery:				
Fluorobenzene	100%	100%		



Date of Report: May 14, 2003  
Samples Submitted: May 9, 2003  
Lab Reference: 05-081  
Project: 833-002

**NWTPH-Gx/BTEX  
MS/MSD QUALITY CONTROL**

Date Extracted: 5-9-03  
Date Analyzed: 5-9-03

Matrix: Water  
Units: ug/L (ppb)

Spike Level: 50.0 ppb

Lab ID:	05-081-03 MS	Percent Recovery	05-081-03 MSD	Percent Recovery	RPD	Flags
Benzene	45.6	91	46.2	92	1.1	
Toluene	48.7	98	49.1	98	0.84	
Ethyl Benzene	51.4	103	51.8	104	0.74	
m,p-Xylene	51.7	103	52.0	104	0.48	
o-Xylene	51.7	103	51.9	104	0.37	

Surrogate Recovery:

Fluorobenzene	102%	103%
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Date of Report: May 14, 2003  
Samples Submitted: May 9, 2003  
Lab Reference: 05-081  
Project: 833-002

**NWTPH-Dx**

Date Extracted: 5-12-03  
Date Analyzed: 5-12-03

Matrix: Water  
Units: mg/L (ppm)

Client ID:	B2-RGW	B3-RGW	B6-RGW
Lab ID:	05-081-01	05-081-02	05-081-03

Diesel Range:	ND	ND	ND
PQL:	0.25	0.26	0.25
Identification:	---	---	---

Lube Oil Range:	ND	ND	ND
PQL:	0.41	0.41	0.41
Identification:	---	---	---

Surrogate Recovery			
o-Terphenyl:	85%	83%	97%

Flags:	Y	Y	Y
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Date of Report: May 14, 2003  
Samples Submitted: May 9, 2003  
Lab Reference: 05-081  
Project: 833-002

**NWTPH-Dx**

Date Extracted: 5-12-03  
Date Analyzed: 5-12-03

Matrix: Water  
Units: mg/L (ppm)

Client ID: B10-RGW  
Lab ID: 05-081-04

Diesel Range: ND  
PQL: 0.25  
Identification: ---

Lube Oil Range: ND  
PQL: 0.41  
Identification: ---

Surrogate Recovery  
o-Terphenyl: 80%

Flags: Y

Date of Report: May 14, 2003  
Samples Submitted: May 9, 2003  
Lab Reference: 05-081  
Project: 833-002

**NWTPH-Dx**  
**METHOD BLANK QUALITY CONTROL**

Date Extracted: 5-12-03  
Date Analyzed: 5-12-03

Matrix: Water  
Units: mg/L (ppm)

Lab ID: MB0512W1

Diesel Range: ND  
PQL: 0.25  
Identification: ---

Lube Oil Range: ND  
PQL: 0.40  
Identification: ---

Surrogate Recovery  
o-Terphenyl: 86%

Flags: Y

Date of Report: May 14, 2003  
Samples Submitted: May 9, 2003  
Lab Reference: 05-081  
Project: 833-002

**NWTPH-Dx**  
**DUPLICATE QUALITY CONTROL**

Date Extracted: 5-12-03  
Date Analyzed: 5-12-03

Matrix: Water  
Units: mg/L (ppm)

Lab ID: 05-017-06 05-017-06 DUP

Diesel Range: ND ND  
PQL: 0.26 0.26

RPD: N/A

Surrogate Recovery  
o-Terphenyl: 83% 97%

Flags: Y Y

Date of Report: May 14, 2003  
Samples Submitted: May 9, 2003  
Lab Reference: 05-081  
Project: 833-002

**VOLATILES by EPA 8260B**  
Page 1 of 2

Date Extracted: 5-11-03  
Date Analyzed: 5-11-03  
  
Matrix: Water  
Units: ug/L (ppb)  
  
Lab ID: 05-081-03  
Client ID: B6-RGW

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		0.20
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		0.20
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	ND		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		1.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

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**RCLLC 0004281**

Date of Report: May 14, 2003  
 Samples Submitted: May 9, 2003  
 Lab Reference: 05-081  
 Project: 833-002

**VOLATILES by EPA 8260B**  
 Page 2 of 2

Lab ID: 05-081-03  
 Client ID: B6-RGW

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	0.48		0.20
m,p-Xylene	0.92		0.40
o-Xylene	0.39		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	0.22		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	0.25		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	0.76		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	1.3		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	98	63-130
Toluene, d8	97	78-113
4-Bromofluorobenzene	99	77-109

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**RCLLC 0004282**

Date of Report: May 14, 2003  
 Samples Submitted: May 9, 2003  
 Lab Reference: 05-081  
 Project: 833-002

# **VOLATILES by EPA 8260B**

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Date Extracted: 5-11-03  
 Date Analyzed: 5-11-03  
 Matrix: Water  
 Units: ug/L (ppb)  
 Lab ID: 05-081-04  
 Client ID: B10-RGW

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		0.20
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		0.20
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	ND		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		1.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

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**RCLLC 0004283**



Date of Report: May 14, 2003  
 Samples Submitted: May 9, 2003  
 Lab Reference: 05-081  
 Project: 833-002

**VOLATILES by EPA 8260B**  
 Page 2 of 2

Lab ID: 05-081-04  
 Client ID: B10-RGW

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	0.22		0.20
m,p-Xylene	0.48		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	0.34		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	99	63-130
Toluene, d8	100	78-113
4-Bromofluorobenzene	97	77-109

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**RCLLC 0004284**

Date of Report: May 14, 2003  
Samples Submitted: May 9, 2003  
Lab Reference: 05-081  
Project: 833-002

**VOLATILES by EPA 8260B**  
**METHOD BLANK QUALITY CONTROL**  
Page 1 of 2

Date Extracted: 5-11-03  
Date Analyzed: 5-11-03  
  
Matrix: Water  
Units: ug/L (ppb)  
  
Lab ID: MB0511W1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		0.20
Vinyl Chloride	ND		0.20
Bromomethane	ND		0.20
Chloroethane	ND		0.20
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	ND		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		1.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20

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**RCLLC 0004285**

Date of Report: May 14, 2003  
 Samples Submitted: May 9, 2003  
 Lab Reference: 05-081  
 Project: 833-002

**VOLATILES by EPA 8260B**  
**METHOD BLANK QUALITY CONTROL**  
 Page 2 of 2

Lab ID: MB0511W1

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	ND		0.20
m,p-Xylene	ND		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	97	63-130
Toluene, d8	102	78-113
4-Bromofluorobenzene	100	77-109

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**RCLLC 0004286**

Date of Report: May 14, 2003  
 Samples Submitted: May 9, 2003  
 Lab Reference: 05-081  
 Project: 833-002

**VOLATILES by EPA 8260B  
 MS/MSD QUALITY CONTROL**

Date Extracted: 5-11-03  
 Date Analyzed: 5-11-03

Matrix: Water  
 Units: ug/L (ppb)

Lab ID: 05-032-01

Compound	Sample Amount	Spike Amount	MS	Percent Recovery	MSD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	ND	10.0	8.88	89	9.30	93	69-113	
Benzene	1.37	10.0	11.3	99	11.5	101	71-128	
Trichloroethene	ND	10.0	9.89	99	10.4	104	82-122	
Toluene	0.231	10.0	10.0	98	10.5	102	54-118	
Chlorobenzene	ND	10.0	9.81	98	10.2	102	85-103	

	RPD	RPD Limit	Flags
1,1-Dichloroethene	4.6	15	
Benzene	2.0	9.6	
Trichloroethene	5.0	12	
Toluene	4.3	15	
Chlorobenzene	4.0	5.8	

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**RCLLC 0004287**

Date of Report: May 14, 2003  
Samples Submitted: May 9, 2003  
Lab Reference: 05-081  
Project: 833-002

**DISSOLVED METALS**  
**EPA 200.8/7470A**

Date Filtered: 5-9-03  
Date Analyzed: 5-9,12&13-03

Matrix: Water  
Units: ug/L (ppb)

Lab ID: 05-081-03  
Client ID: B6-RGW

Analyte	Method	Result	PQL
Arsenic	200.8	ND	3.0
Barium	200.8	170	25
Cadmium	200.8	ND	4.0
Chromium	200.8	ND	10
Lead	200.8	ND	1.0
Mercury	7470A	ND	.50
Selenium	200.8	ND	5.0
Silver	200.8	ND	10

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**RCLLC 0004288**

Date of Report: May 14, 2003  
Samples Submitted: May 9, 2003  
Lab Reference: 05-081  
Project: 833-002

**DISSOLVED METALS**  
**EPA 200.8/7470A**

Date Filtered: 5-9-03  
Date Analyzed: 5-9,12&13-03

Matrix: Water  
Units: ug/L (ppb)

Lab ID: 05-081-04  
Client ID: B10-RGW

Analyte	Method	Result	PQL
Arsenic	200.8	ND	3.0
Barium	200.8	56	25
Cadmium	200.8	ND	4.0
Chromium	200.8	ND	10
Lead	200.8	ND	1.0
Mercury	7470A	ND	.50
Selenium	200.8	ND	5.0
Silver	200.8	ND	10

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**RCLLC 0004289**

Date of Report: May 14, 2003  
Samples Submitted: May 9, 2003  
Lab Reference: 05-081  
Project: 833-002

**DISSOLVED METALS  
EPA 200.8/7470A  
METHOD BLANK QUALITY CONTROL**

Date Filtered: 5-9-03  
Date Analyzed: 5-9,12&13-03

Matrix: Water  
Units: ug/L (ppb)

Lab ID: MB0509D1

Analyte	Method	Result	PQL
Arsenic	200.8	ND	3.0
Barium	200.8	ND	25
Cadmium	200.8	ND	4.0
Chromium	200.8	ND	10
Lead	200.8	ND	1.0
Mercury	7470A	ND	0.50
Selenium	200.8	ND	5.0
Silver	200.8	ND	10

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**RCLLC 0004290**

Date of Report: May 14, 2003  
Samples Submitted: May 9, 2003  
Lab Reference: 05-081  
Project: 833-002

**DISSOLVED METALS**  
**EPA 200.8/7470A**  
**DUPLICATE QUALITY CONTROL**

Date Filtered: 5-9-03  
Date Analyzed: 5-9,12&13-03

Matrix: Water  
Units: ug/L (ppb)

Lab ID: 05-081-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	3.0	
Barium	169	167	1	25	
Cadmium	ND	ND	NA	4.0	
Chromium	ND	ND	NA	10	
Lead	ND	ND	NA	1.0	
Mercury	ND	ND	NA	0.50	
Selenium	ND	ND	NA	5.0	
Silver	ND	ND	NA	10	

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**RCLLC 0004291**



Date of Report: May 14, 2003  
Samples Submitted: May 9, 2003  
Lab Reference: 05-081  
Project: 833-002

**DISSOLVED METALS  
EPA 200.8/7470A  
MS/MSD QUALITY CONTROL**

Date Filtered: 5-9-03  
Date Analyzed: 5-9,12&13-03

Matrix: Water  
Units: ug/L (ppb)

Lab ID: 05-081-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	108	108	109	109	0	
Barium	100	257	88	259	89	1	
Cadmium	100	96.5	96	94.7	95	2	
Chromium	100	97.4	97	97.4	97	0	
Lead	100	95.9	96	97.3	97	2	
Mercury	10.0	10.5	105	10.2	102	3	
Selenium	100	111	111	111	111	0	
Silver	100	110	110	105	105	5	

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**RCLLC 0004292**



#### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- D - Data from 1:\_\_\_\_ dilution.
- E - The value reported exceeds the quantitation range, and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- G - Insufficient sample quantity for duplicate analysis.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- O - Hydrocarbons outside the defined gasoline range are present in the sample.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD is outside control limits due to sample inhomogeneity.
- X - Sample extract treated with a silica gel cleanup procedure.
- Y - Sample extract treated with a silica gel/acid cleanup procedure.
- Z -
- ND - Not Detected at PQL
- MRL - Method Reporting Limit
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference

[illegible]

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**RCLLC 0004294**